

CLAIMS

1. An electrically heatable glazing panel comprising, a substrate, a substantially transparent, electrically conductive coating layer and spaced first and second bus bars, in which at least part of the coating layer is adapted to be electrically heatable via the spaced first and second bus bars, in which the first and second bus bars diverge at at least one portion along their lengths, and in which the coating layer comprises a plurality of zones comprising at least:

- i) A first passive coated zone, which is adapted to be substantially non-heatable electrically; and
- ii) A first active coated zone which is adapted to be electrically heatable.

2. An electrically heatable glazing panel according to claim 1 in which the coating layer is divided into a plurality of zones comprising at least:

- i) A first passive coated zone, which is adapted to be substantially non-heatable electrically; and
- ii) A first active coated zone which is adapted to be electrically heatable; and
- iii) A second passive coated zone which is adapted to be substantially non-heatable electrically.

3. An electrically heatable glazing panel according to any preceding claim in which the first active zone is adjacent to the first passive zone.

4. An electrically heatable glazing panel according to any preceding claim in which the active and passive zones are delimited by one or more substantially insulating zone boundaries.

5. An electrically heatable glazing panel according to claim 4 in which the one or more zone boundaries is provided by non-coated portions of the glazing panel.

6. An electrically heatable glazing panel according to any of claims 1 to 5 in which the active and passive zones are provided in the form of strips having substantially parallel sides along their lengths.

7. An electrically heatable glazing panel according to any preceding claim in which at least one passive zone has a width of less than 20 mm.

8. An electrically heatable glazing panel according to any of claims 3 to 7 in which the width of at least one active zone is less than or equal to ten times the width of its adjacent passive.

9. An electrically heatable glazing panel according to any preceding claim in which the first bus bar is provided at an upper edge of the glazing panel and the second bus bar is provided at a lower edge of the glazing panel.

10. An electrically heatable glazing panel according to any preceding claim comprising a first glazing portion positioned between the first and second bus bars and having at least one active coated zone and an adjacent passive coated zone, a second glazing portion positioned between the first and second bus bars at a position at which the distance between the bus bars is greater than the distance between the bus bars at the first glazing portion, the second glazing portion having at least one active coated zone and an adjacent passive coated zone, and in which the ratio (surface area of the passive coated zone/ the surface area of the adjacent active coated zone) at the first glazing portion is greater than that at the second glazing portion.

11. An electrically heatable glazing panel according to any of claims 4 to 10 in which the one or more zone boundaries have a width of less than 150 μm .

12. An electrically heatable glazing panel according to any preceding claim in which at least 50% of the surface area of the coating layer comprises active coated zones.

13. An electrically heatable glazing panel according to any preceding claim in which the coating layer is a solar control coating layer.

14. An electrically heatable glazing panel according to any preceding claim in which the coating layer has a resistance comprised between 2 and 25 ohms/square.

15. An electrically heatable glazing panel according to any preceding claim in which the substrate is a glass sheet and in which the coating layer is provided at a surface of the glass sheet.

16. An electrically heatable glazing panel according to any of claims 1to 15 in which the coating layer is provided on a flexible sheet, notably a PET sheet, which forms part of the glazing panel.

17. An electrically heatable glazing panel according to any preceding claim in which the glazing panel is thermally toughened.

18. An electrically heatable glazing panel according to any preceding claim in which the glazing panel is laminated.

19. An electrically heatable glazing panel according to any preceding claim in which the glazing panel is an automotive side window.

20. An electrically heatable glazing panel according to any preceding claim in which the glazing panel has at least one acute angle.

21. An electrically heatable glazing panel according to claim 20 in which the glazing panel is of substantially triangular shape.

22. An electrically heatable glazing panel according to any preceding claim in which the variation in temperature across the active and passive coated zones is less than 15°C when a voltage is applied across the coating layer via the first and second bus bars and after the glazing panel has reached equilibrium conditions with its surroundings, the surroundings being at room temperature.